DESIGN ADVISORY GROUP #7 / AUGUST 29, 2019



INTRODUCTIONS

















PORTLAND PUBLIC SCHOOLS

Brian Oylear, Project Director Jen Sohm, Project Design Manager Jamie Hurd, Project Manager Mark Kline, Construction Manager

BASSETTI ARCHITECTS

Lorne McConachie, Principal Joe Echeverri, Principal Lydia Burns, Associate Principal Matt Primovic, Design Lyndon Julien-Sehl, Design

OPEN HOUSE - JUNE





COMMUNITY INPUT

- + One concern I have about the loss of parking at the Benson campus is the additional strain that student/ family/visitor even parking on the neighborhood streets
- + Selection o finish materials should, when appropriate, reflect the age of the building.
- + Second floor administration offices should look out over the (interior) common area to improve supervision rather than look out on the city.
- + Put a large LED sign on the Radio Tower that says "TECH"
- + ...leaving some of the grass berm is needed to not only respect the historical appearance of the main entry, but also soften it visually as opposed to a wall of concrete.

FRESHMAN ORIENTATION - AUGUST

DISCUSSION

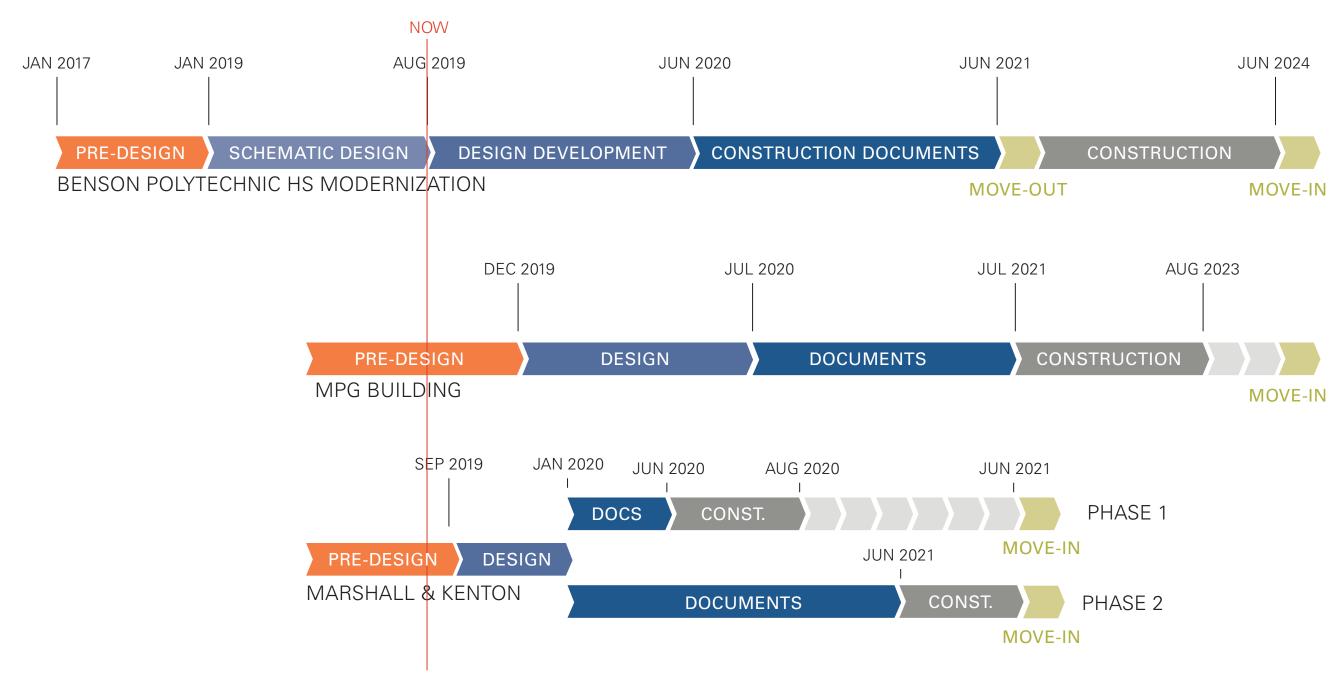
- + Surprise didn't know about the change in plans to swing offsite to Marshall
- + How will the CTE shops be accommodated at Marshall
- + Will all programs be offered at Marshall?
- + Transportation questions about swing site commute for students during construction
- + Franklin article teaching sharing



PROJECT UPDATE /



PROCESS SCHEDULE



MPG UPDATE / INTEGRATION OF ALLIANCE AT MEEK INTO THE MPG BUILDING

Ground Floor (Parking) 41,400 SF First Floor 42,400 SF Second Floor 32,400 SF

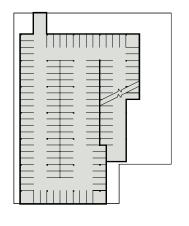
Total 116,200 SF

Parking 115 Stalls

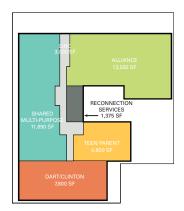
Schools & Programs at Parking Site:

- + Alliance @ Benson Classrooms & Science Labs
- + Alliance @ Benson CTE Culinary & Digital Arts
- + Alliance @ Meek Classrooms & Science Labs
- + Alliance @ Meek CTE Auto and Manufacturing
- + Reconnection Center
- + Reconnection Services
- + DART/Clinton School
- + Teen Parent with outdoor play area
- + Shared Multi-Purpose Room & Library
- + Shared Gym/Activity Space & Lockers
- + Shared Commons/Flex and Kitchen
- + Shared on-site parking for both Benson and MPG sites

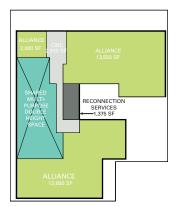
PARKING SITE:



GROUND FLOOR



FIRST FLOOR



SECOND FLOOR

BENSON CAMPUS: NO CHANGES

Schools & Programs at Benson Campus:

Schools & Programs at Kenton Campus:

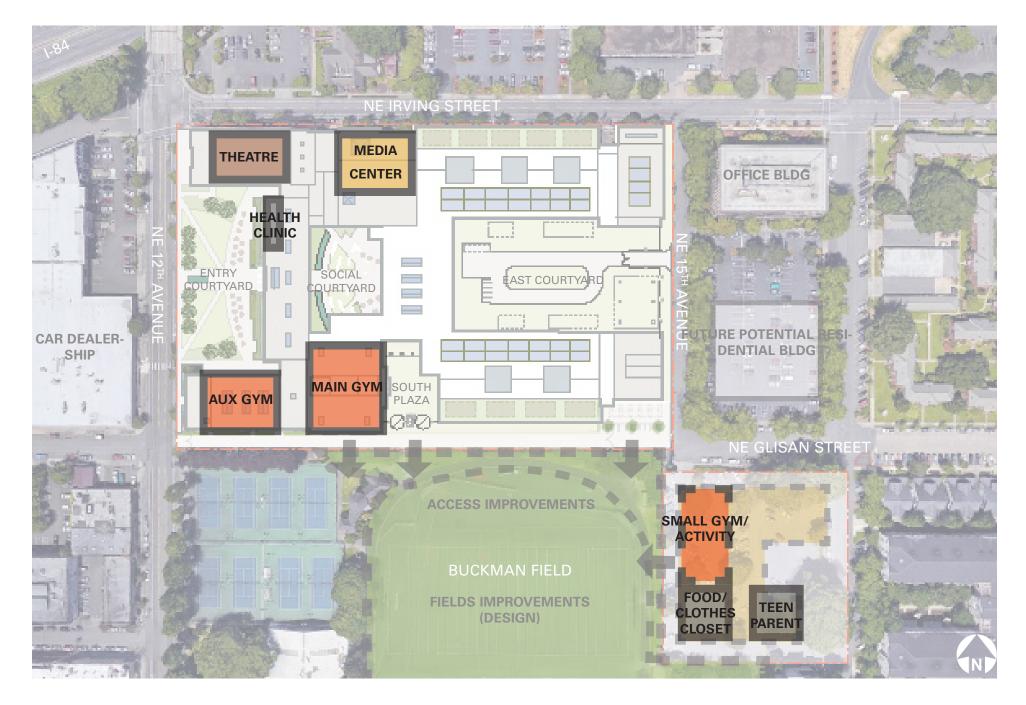
Schools & Programs at Meek Campus:

+ None

+ None

+ None

BENSON CAMPUS PROGRAM / SHARED RESOURCES

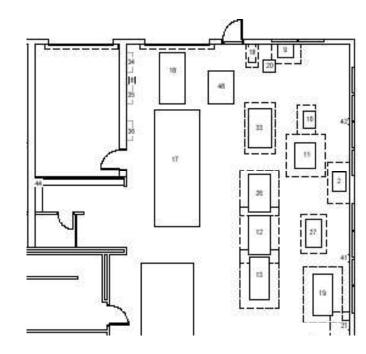


DESIGN TEAM TASKS

- + Historic windows and doors assessment
- + Masonry assessment
- + Seismic design criteria
- + Portland BDS Early Assistance
- + Equipment surveying

CMGC SUPPORT

- + 100 task list of requested investigations
- + Destructive testing
- + Lessons learned ideas for HazMat, structural, dimensional verifications







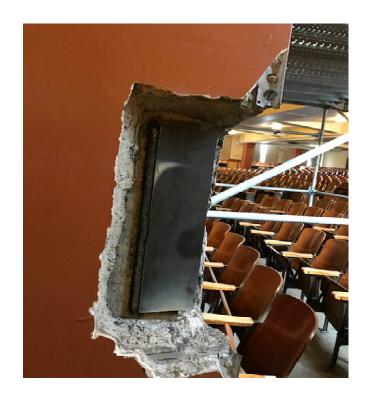
Activities included investigation for structure components within the existing buildings that will be refurbished – Auditorium, Administration and Gymnasiums.

 Removing wall finishes to drill concrete core for testing of the existing concrete strength.



 Removed section of steel beams to test strengths and welded back sections





 Remove sections of rebar located in concrete columns and beams to test tensile strength of the existing rebar.





• Brick removal to confirm wall conditions.





 Test cleaning methods for façade terra cotta.



- Ground Penetrating Radar is being used in many location to locate exiting rebar in walls and floors, underground water, gas pipe lines and underground conduits.
- Many items throughout the facility is being test and analyzed for lead paint and asbestos.



WINDOW RESTORATION MOCK-UP

Window E-W-106: Pre-Rehabilitation conditions.



Window E-W-106: After Restoration (Exterior)





WINDOW RESTORATION MOCK-UP

Window A-S-205: Pre-Rehabilitation conditions.



Window A-S-205: After Restoration (Exterior).





VE Workshop Process



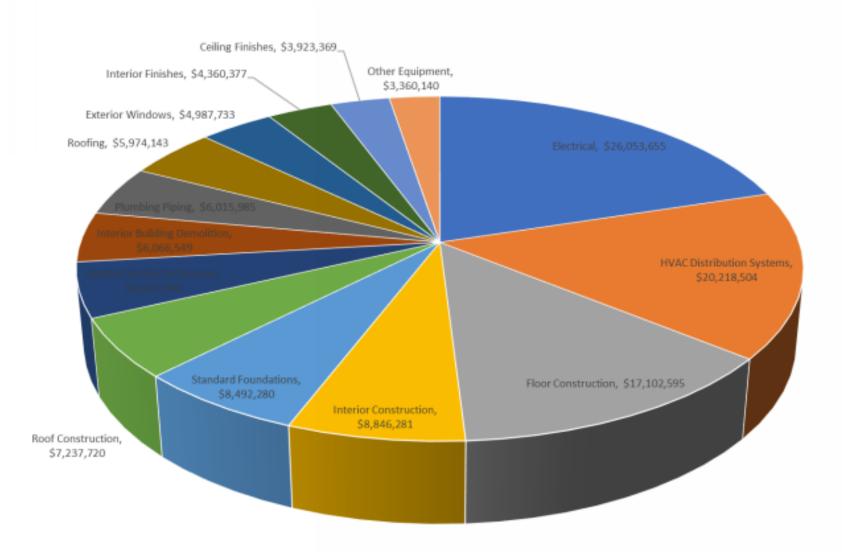


VE Workshop Defined Attributes

						OIAL	,,,
Durability & Maintainability: 50- year life; ease and cost of maintenance; finishes; complexity of maintenance	а	a	a	e	f	3.0	20%
Visual Design Integrity: maintain integrity of the existing structure; community acceptance; maintain integrity of old and new	В	С	b	e	f	1.0	7%
Health, Safety & Wellness Sustainability: open space daylighting; fresh air; seiss above and beyond the co- (include Sustainability)	e; mic	с	С	c/e	c/f	3.0	20%
Sustainability: certify for LEED Silver for design and new construction			D	e	f	0.0	0%
Adaptability & Flexibility: evolve to meet on-going and future E f educational needs						3.5	23%
Functionality: building is a learning tool; appropriate adjacencies and co-locations through design and construction						4.5	30%
a More Important a/b Equal Importance						15.0	100%

TOTAL

Cost Breakdown by Category



Portland Public Schools - Benson High School Pareto_Andersen Chart (Top 80% Only)



Construction Budget Draft Summary

Target Budget for Construction Costs (BHS Only) \$ 225,000,000

3rd Party Estimate \$233,000,000

Initial SD Estimate \$ 261,000,000

Delta \$ 31,000,000 (+13.8%)

PATH TO BUDGET

VE Workshop Results (COW Only) \$ (9,6000,000)

Negotiated GC's/GR's/Allowances/YTB's \$ (11,000,000)

Target Budget Adjustment \$ 4,000,000

Post Summer Investigation Adjustment \$ (6,400,000)

Revised Total Project Budget \$ 229,000,000 (+1.8%)



KEY VALUE ENGINEERING ITEMS

- + More efficient structural layout reduce long spans
- + Simply specification and reduce quantity of trench drains
- + Eliminate green wall at gym building exterior
- + Replace rooftop penthouses with mechanical screens
- + Simplify lighting scheme limit amount of different or custom fixtures
- + Provide some redundancy with conduit and pull string, rather than all fixed panels and wiring

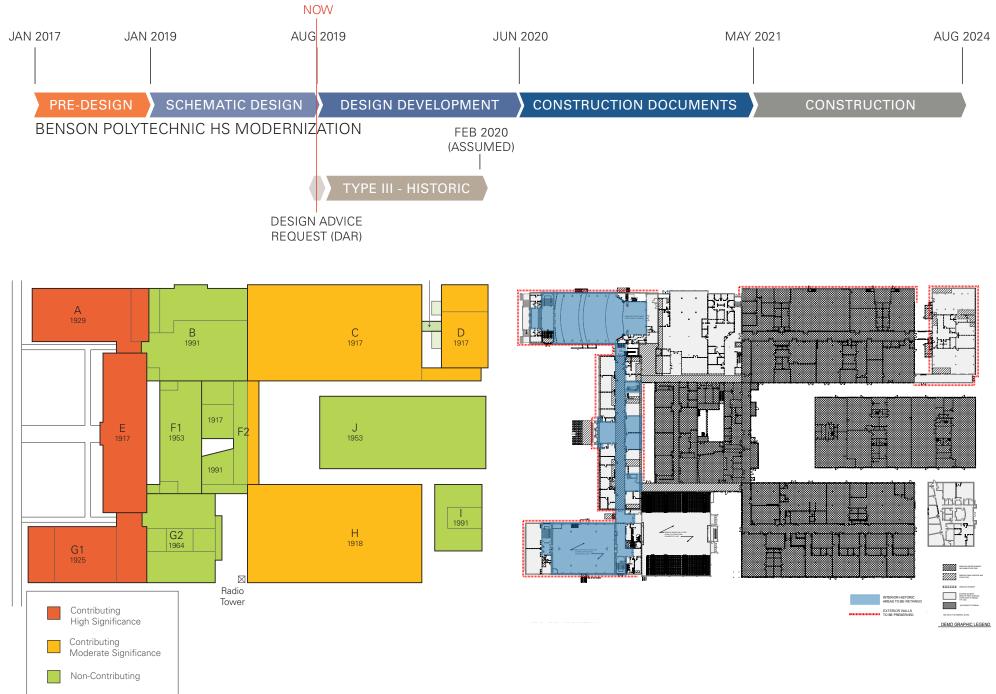
Next Steps:

- 215 Ideas generated during the VE Workshop
- Develop remaining cost reduction ideas
- Evaluate risk reduction opportunities after summer investigation work
- Analyze budget after 100% SD documents are complete
- Develop list of scope reductions items if necessary, i.e. access improvements to Buckman Field, shelled space.....

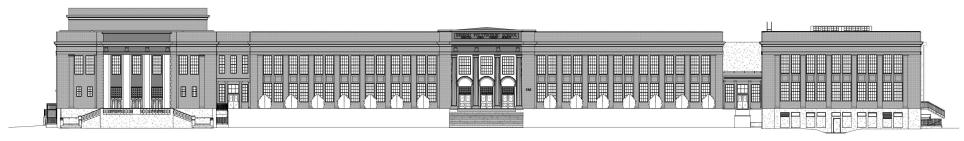
Workshop Outcome	Number	Section of Report/Summary
Number of Ideas Brainstormed	216	See Creative Idea List (found
		in Section 4: Support Data)
Total Number of Ideas Developed	33	See Section 2: Summary
		Information
Great Opportunities ("5s") Developed	9	See Section 2: Summary
Good Opportunities ("4s") Developed	28	Information and Section 3:
		Value Engineering Workbooks
Cost Cutting / Cost Deferral Ideas ("3s"), costed only	59	See Section 2: Summary
		Information
Number of Design Comments (DC), Not Developed	35	See Section 2: Summary
		Information
Number of Estimate Corrections (EC), Not Developed	8	See Section 2: Summary
		Information
Great Opportunities ("5s") Accepted and	7	Potential Cost Avoidance -
Conditionally Accepted		\$0.9M
Good Opportunities ("4s") Accepted and	19	Potential Cost Avoidance -
Conditionally Accepted		\$5.7M



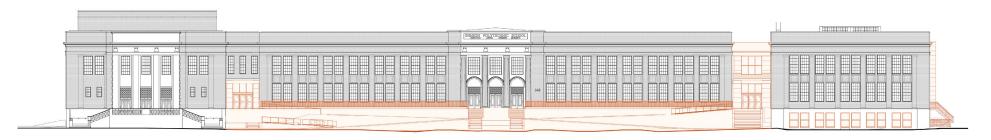
PORTLAND LANDMARKS COMMISSION



PORTLAND LANDMARKS COMMISSION

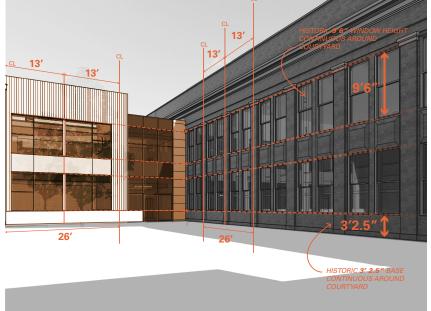


West Elevation (Buildings A, E, G1) - Existing



West Elevation (Buildings A, E, G1) - Proposed



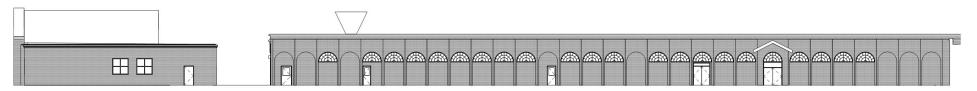


Proportional Relationship of Existing and New Facades

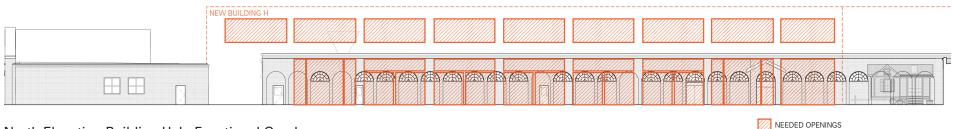


PORTLAND LANDMARKS COMMISSION

CTE Courtyard Elevations



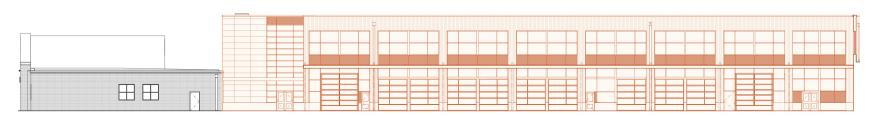
North Elevation Building H, I - Existing



North Elevation Building H, I - Functional Overlay

Proposed fenestration and size (red) overlaid on existing facade (black/gray)

Comments: Current configuration cannot support required openings for vehicle access and daylight needs



North Elevation Building H, I - Proposed



KEYTAKEAWAYS FROM DESIGN ADVICE REVIEW

DISCUSSION ITEMS

- + Illustrate CTE courtyard functions more clearly, make the strong case for replacement of the interior facades. Show vehicular circulation, project needs (i.e. tiny houses, auto program, etc), zoning of the courtyard with functional overlay
- + Clarify west courtyard response to public use, eliminate railing if possible
- + Refine and clarify new building fenestration, provide details that show careful attention to historic response in a modern way.
- + Refine materials, showing scale response to existing historic elements
- + Review and consider keeping all or a portion of the South facade of the South wing, if feasible with program and building footprint



DESIGN UPDATES





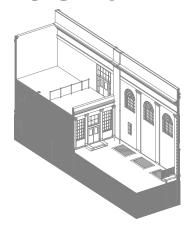
DESIGN UPDATES

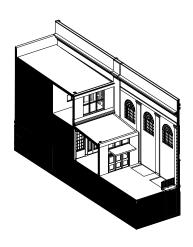






DESIGN UPDATES









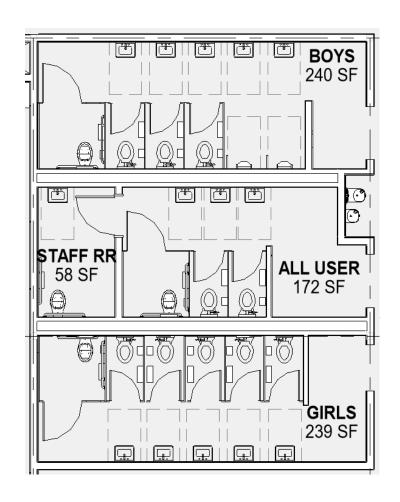
GSA VISIT: REVISED RESTROOM DESIGN

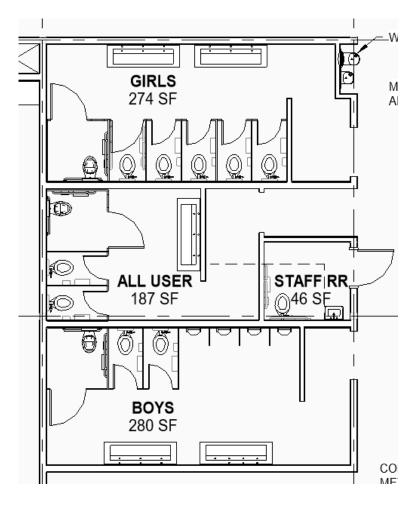
DISCUSSION

- + New design needs to have all user restrooms that are easy to access, distributed
- + Problem with existing is there are a small number of single stalls
- + Inadequate due to time between classes and trying to find one available
- + Need more single stalls or multi-stall gender neutral (like PCC)
- + In general, need more bathrooms due to inadequate #
- + Signage is needed at all restrooms to communicate other options and their location
- + Single use restrooms need occupancy indicators
- + Restrooms need adequate ventilation
- + Students don't feel comfortable changing in front of others in locker room
- + Need curtained stalls
- + No place for gender neutral students to change



GSA VISIT: REVISED RESTROOM DESIGN





90% SD LAYOUT

14 WATER CLOSET FIXTURES
14 LAVATORIES
2 URINALS

100% SD LAYOUT

13 WATER CLOSET FIXTURES 17 LAVATORIES 4 URINALS



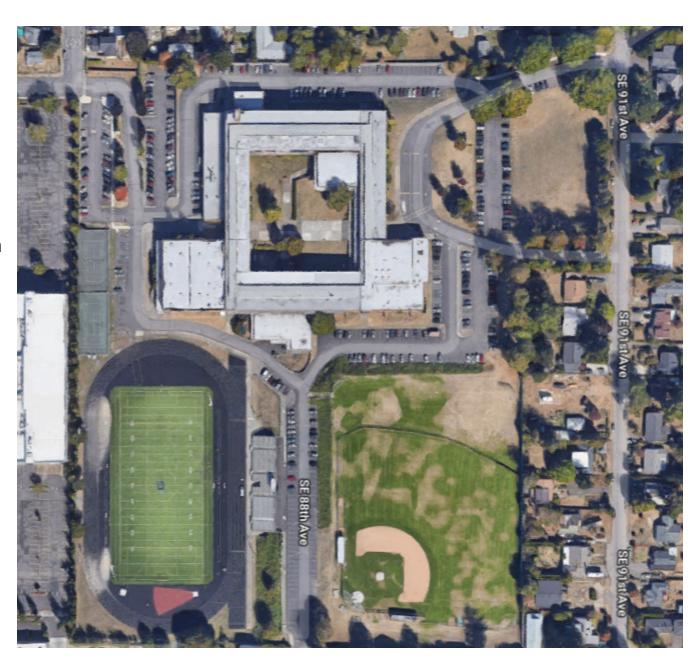
MARSHALL SWING UPDATE /



MARSHALL CAMPUS / BENEFITS

SITE BENEFITS

- + Track and turf field with grandstands
- + Other fields, athletic facilities
- + Ample parking
- + Secured interior courtyard adjacent to commons/cafeteria





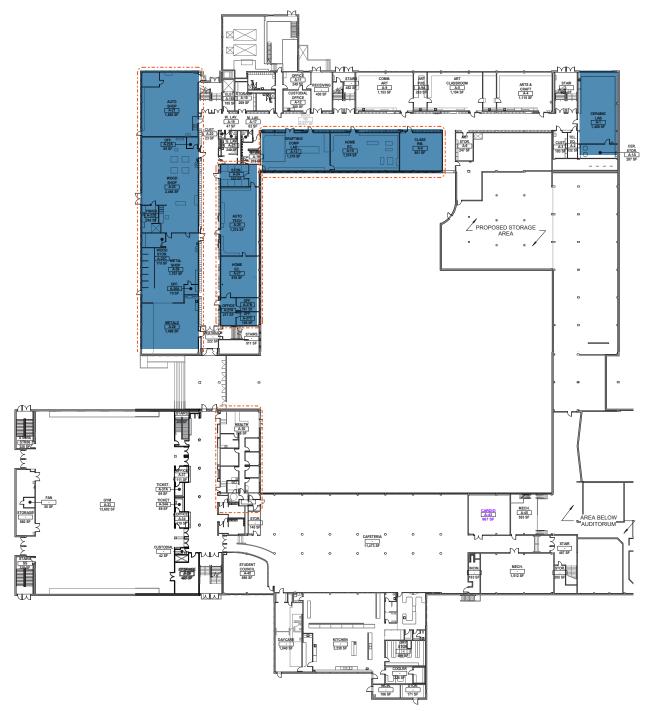
MARSHALL MASTER PLAN / SITE OVERVIEW

TARGET APPROX. 20,000 SF OF NEW CTE SHOP SPACE ON-SITE

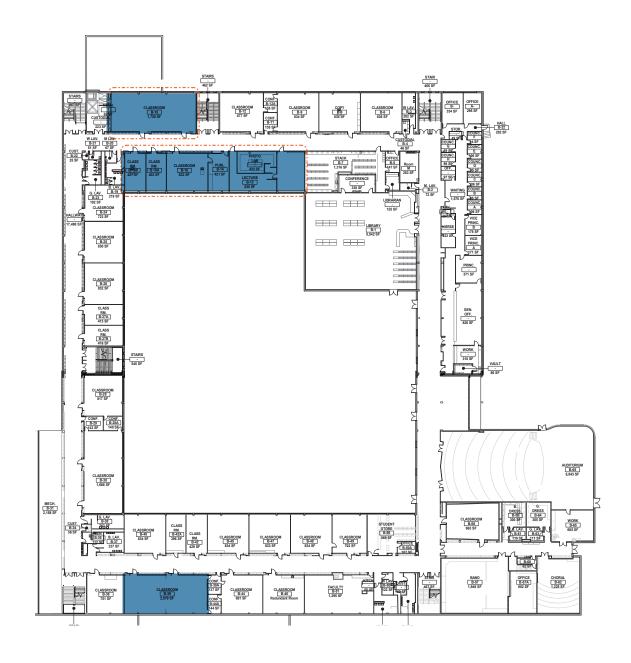




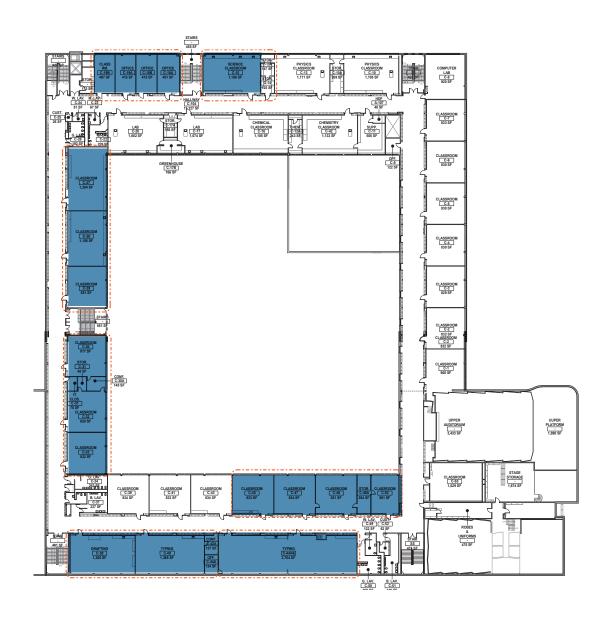
MARSHALL MASTER PLAN / LOWER LEVEL



MARSHALL MASTER PLAN / MAIN LEVEL



MARSHALL MASTER PLAN / UPPER LEVEL



MARSHALL MASTER PLAN / CTE PROGRAM COMPARISON

CTE PROGRAM	EXISTING	SWINGTARGE	T ED SPEC
DESIGN & APPLIED ARTS	1,939 SF	1,800 SF	3,600 SF
ARCHITECTURE	0 SF	0 SF	3,600 SF (TBD)
ENGINEERING	3,714 SF	2,000 SF	3,600 SF
COMPUTER ENGINEERING	3,986 SF	3,000 SF	3,600 SF
RADIO	5,709 SF	3,000 SF	5,709 SF
DIGITAL MEDIA	6,994 SF	4,600 SF	7,200 SF
ELECTRIC	10,233 SF	6,000 SF	7,200 SF
HEALTH OCCUPATIONS	7,899 SF	6,000 SF	7,200 SF
TRANSPORTATION - AUTO	29,000 SF	10,000 SF	14,400 SF
MANUFACTURING	27,145 SF	10,000 SF	14,400 SF
CONSTRUCTION (W/ MATH TECH)	8,266 SF	8,000 SF	14,400 SF
UNASSIGNED CTE SUITES	0 SF	0 SF	3,600 SF



NEXT STEPS - MARSHALL SWING SITE

STAKEHOLDER ENGAGEMENT

- + Review existing spaces with Benson staff (mid-to late Sept. target)
- + Site visit with Benson staff and Design Advisory Group (Sept. or Oct. target)

PROJECT TASKS

- + Refinement of swing site Master Plan and scoping documents (2019)
- + Development of comprehensive transportation plan (by 2020)
- + Site investigations systems, utilities, soils, etc. (ongoing through 2021)
- + Construction
 - + Phase 1 Summer 2020
 - + Phase 2 Fall 2020 through Summer 2021

PUBLIC COMMENT /



THANK YOU.

